

## Active safety steering column

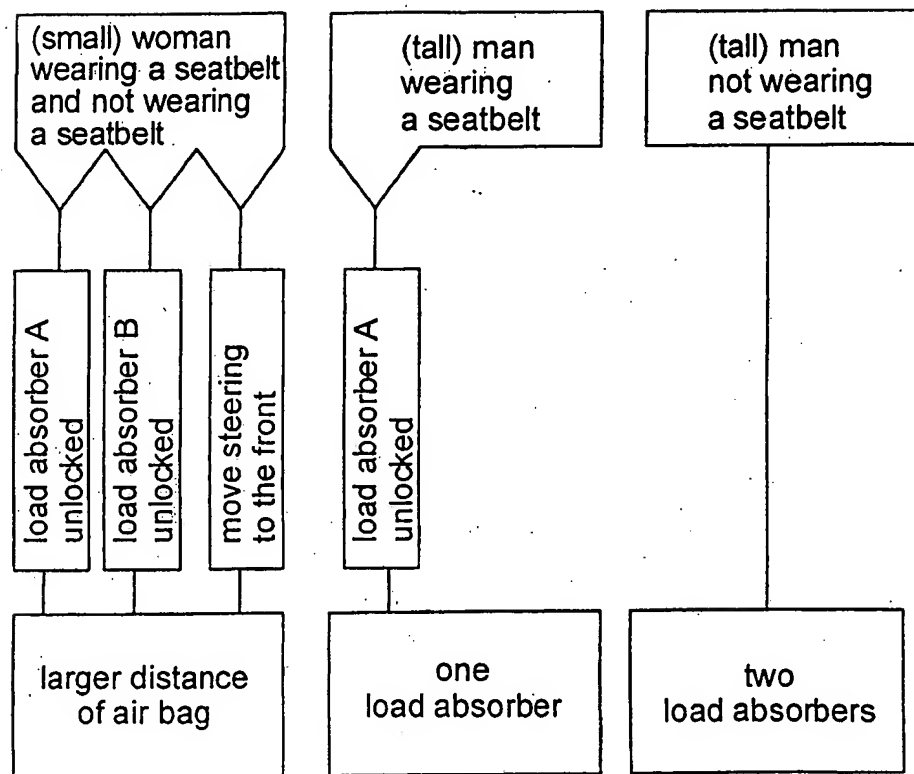


Fig. 1

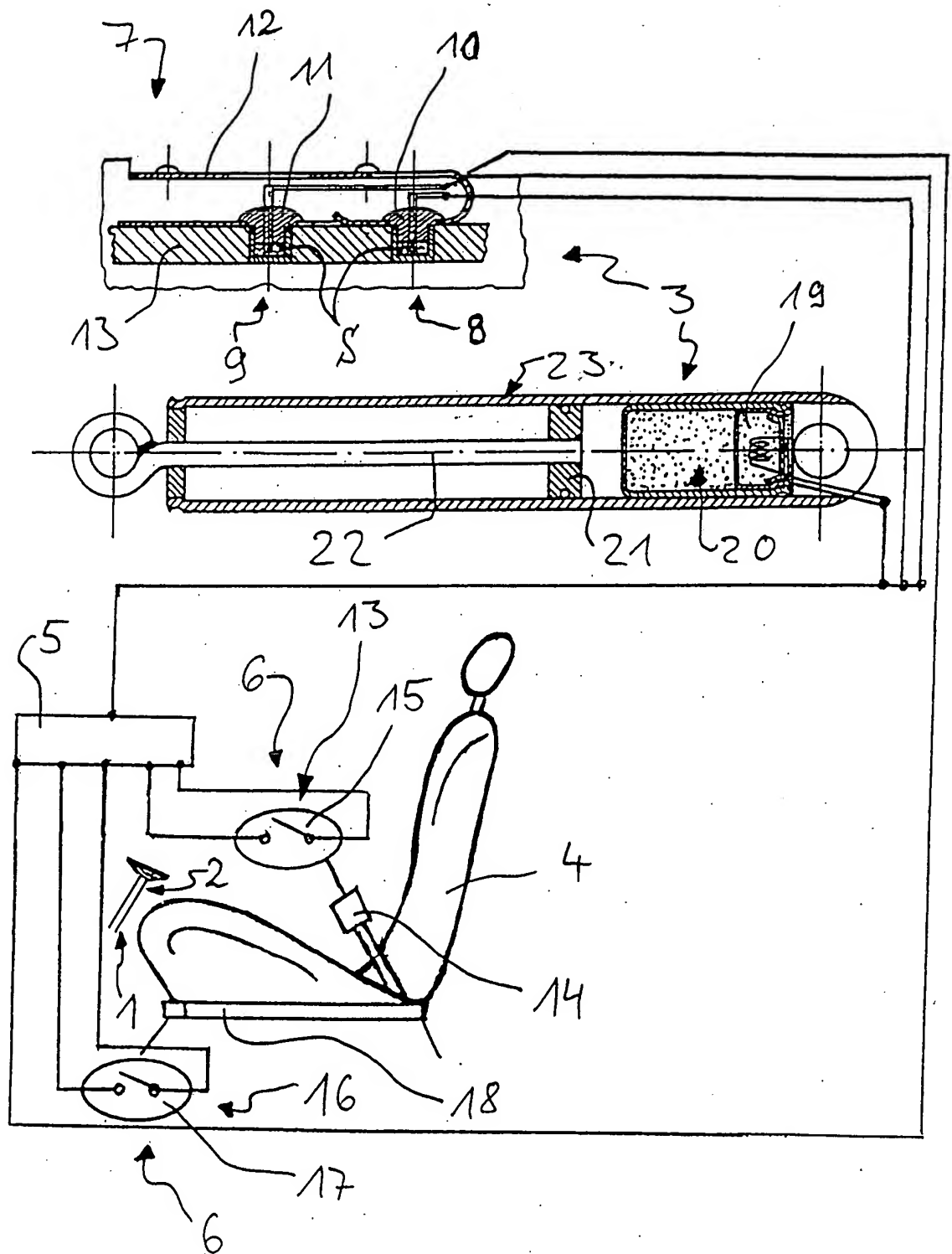


Fig. 2

Fig. 3a

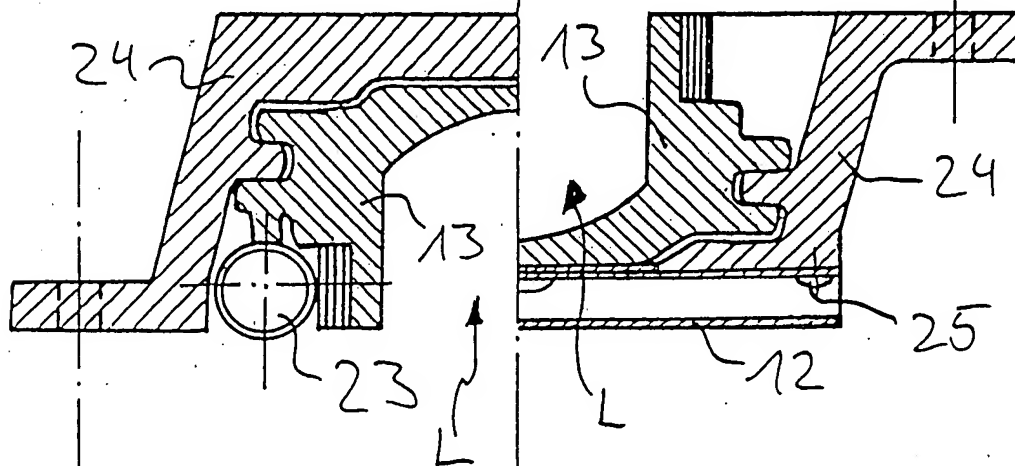
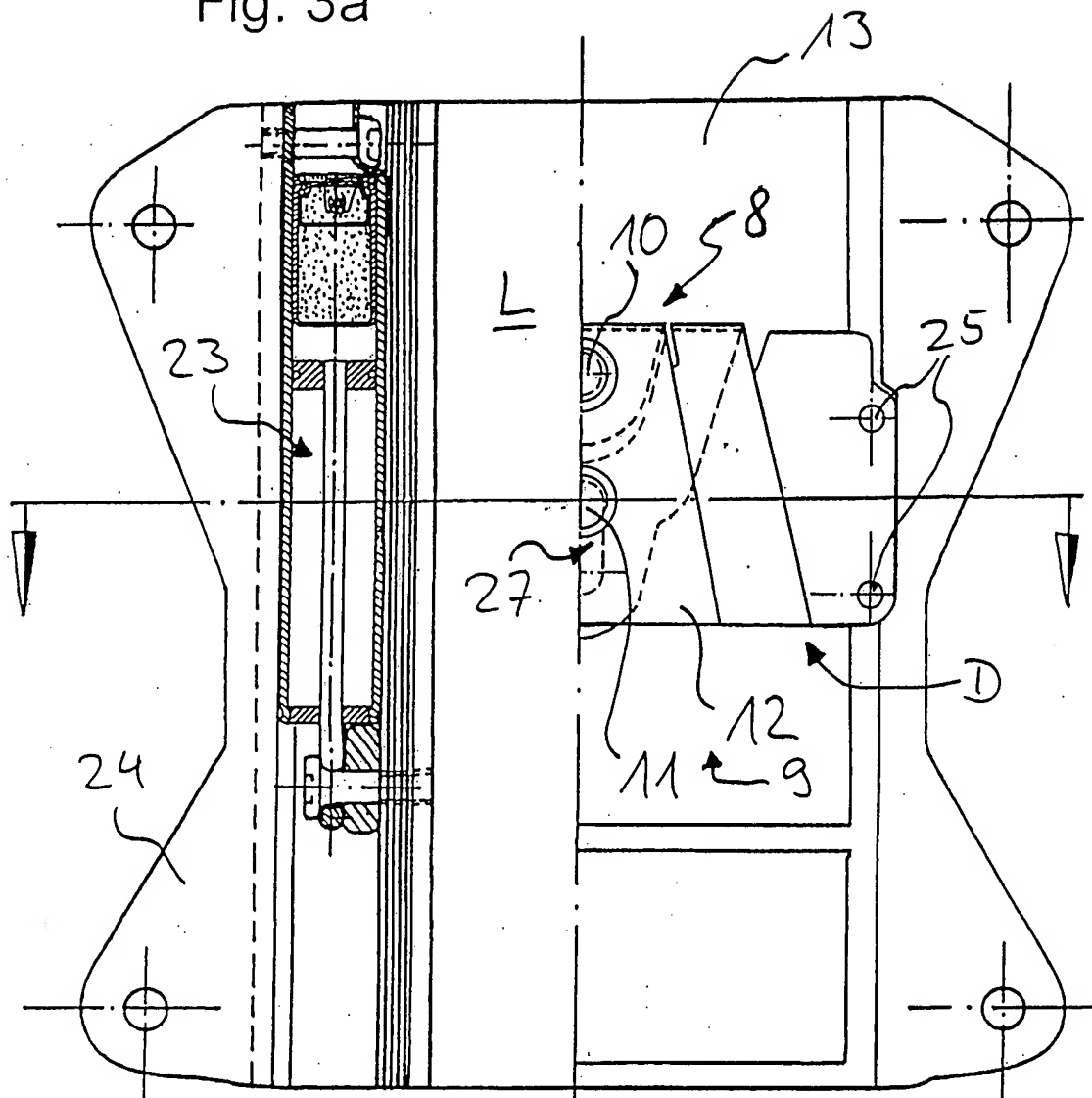


Fig. 3b

Fig. 3c

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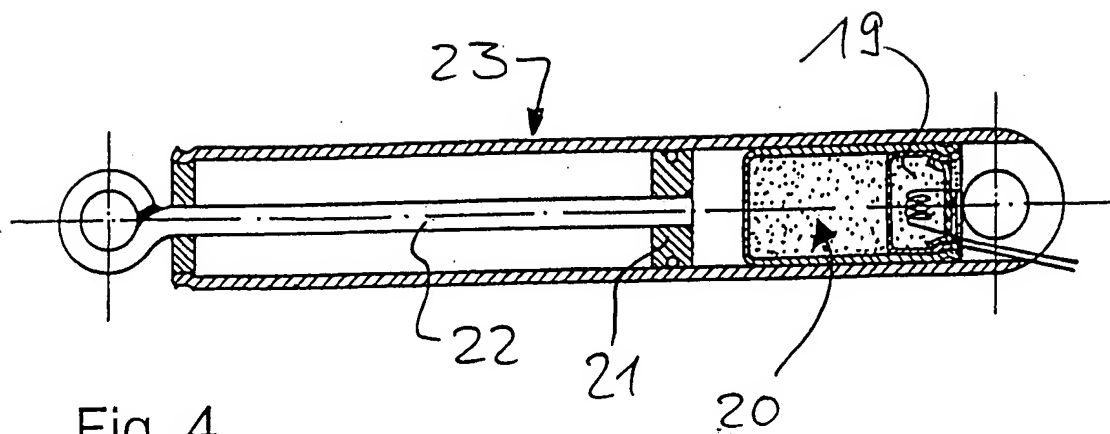


Fig. 4

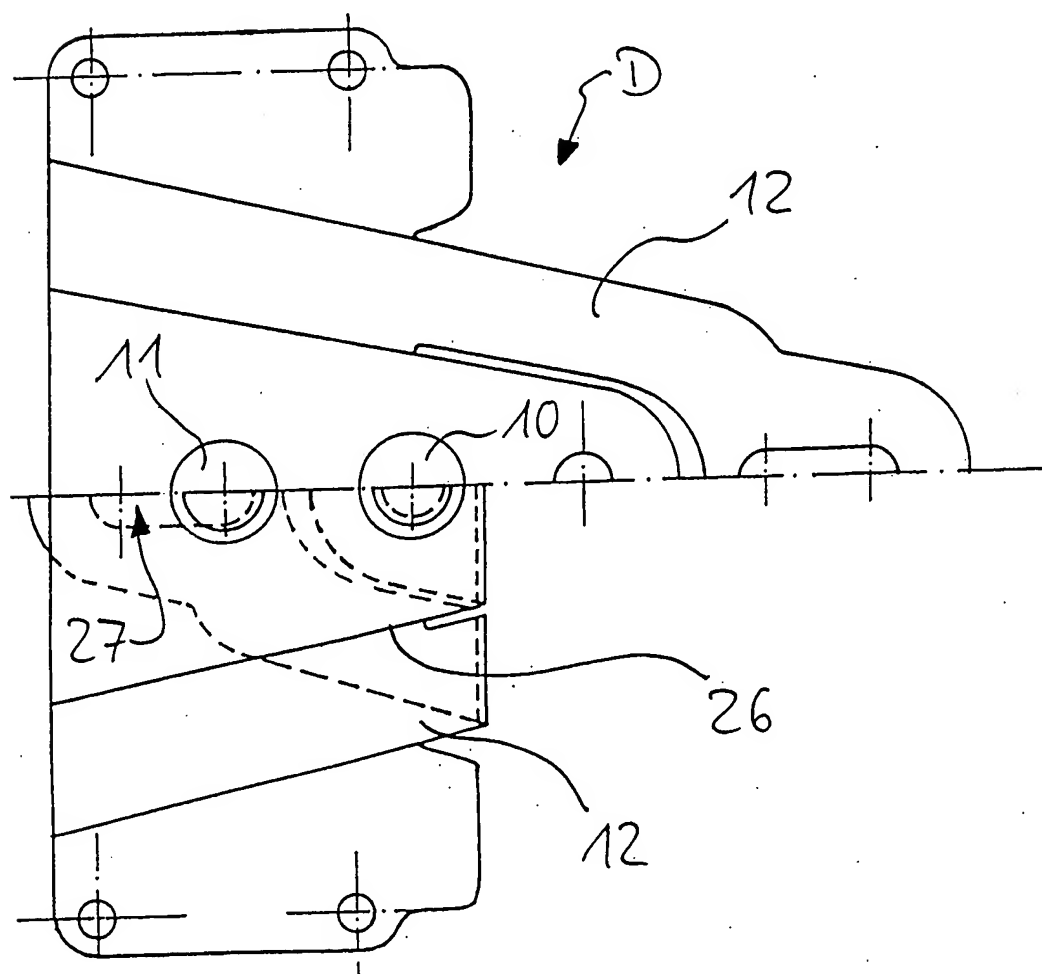


Fig. 5

BEST AVAILABLE COPY

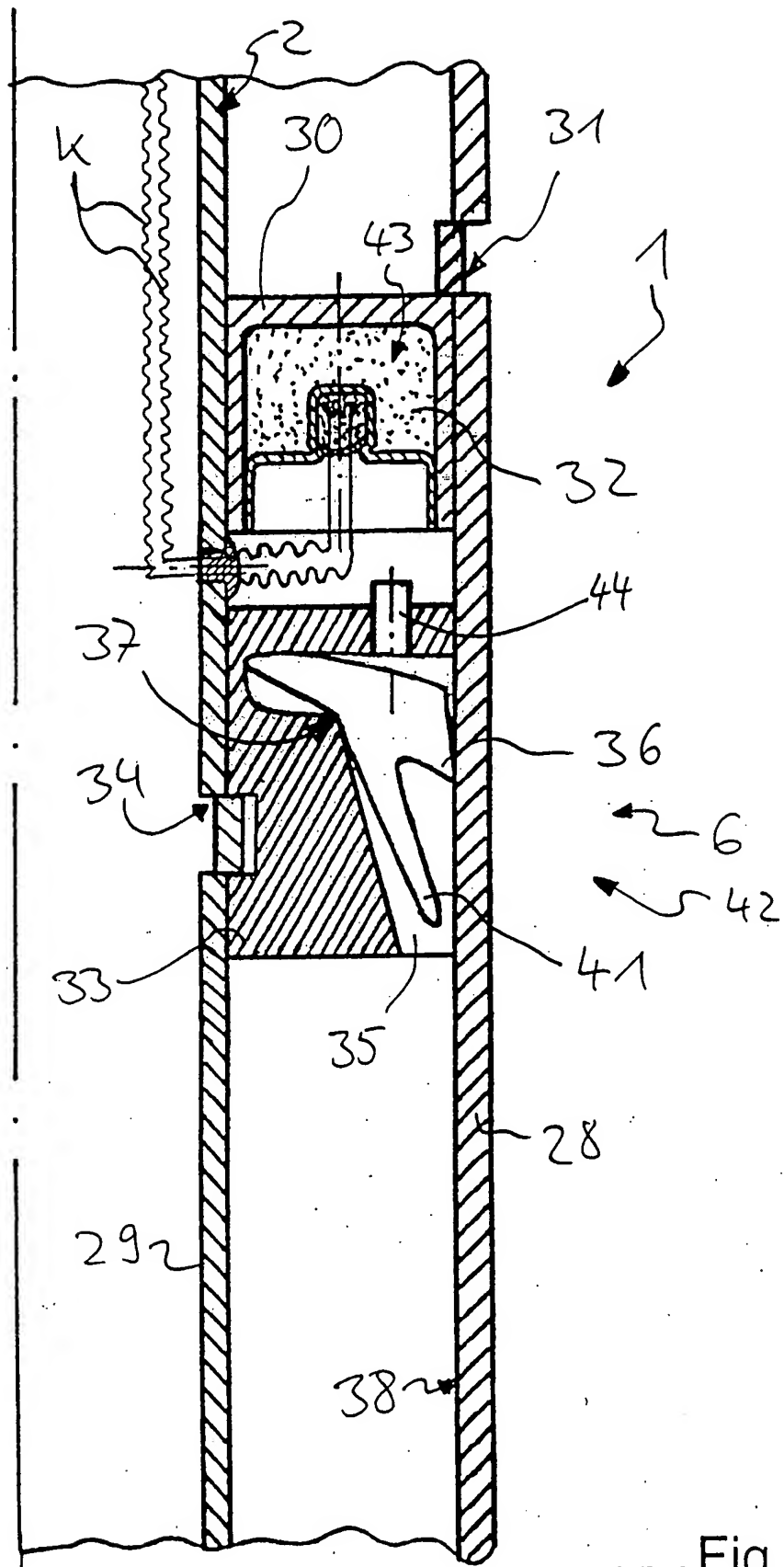


Fig. 6





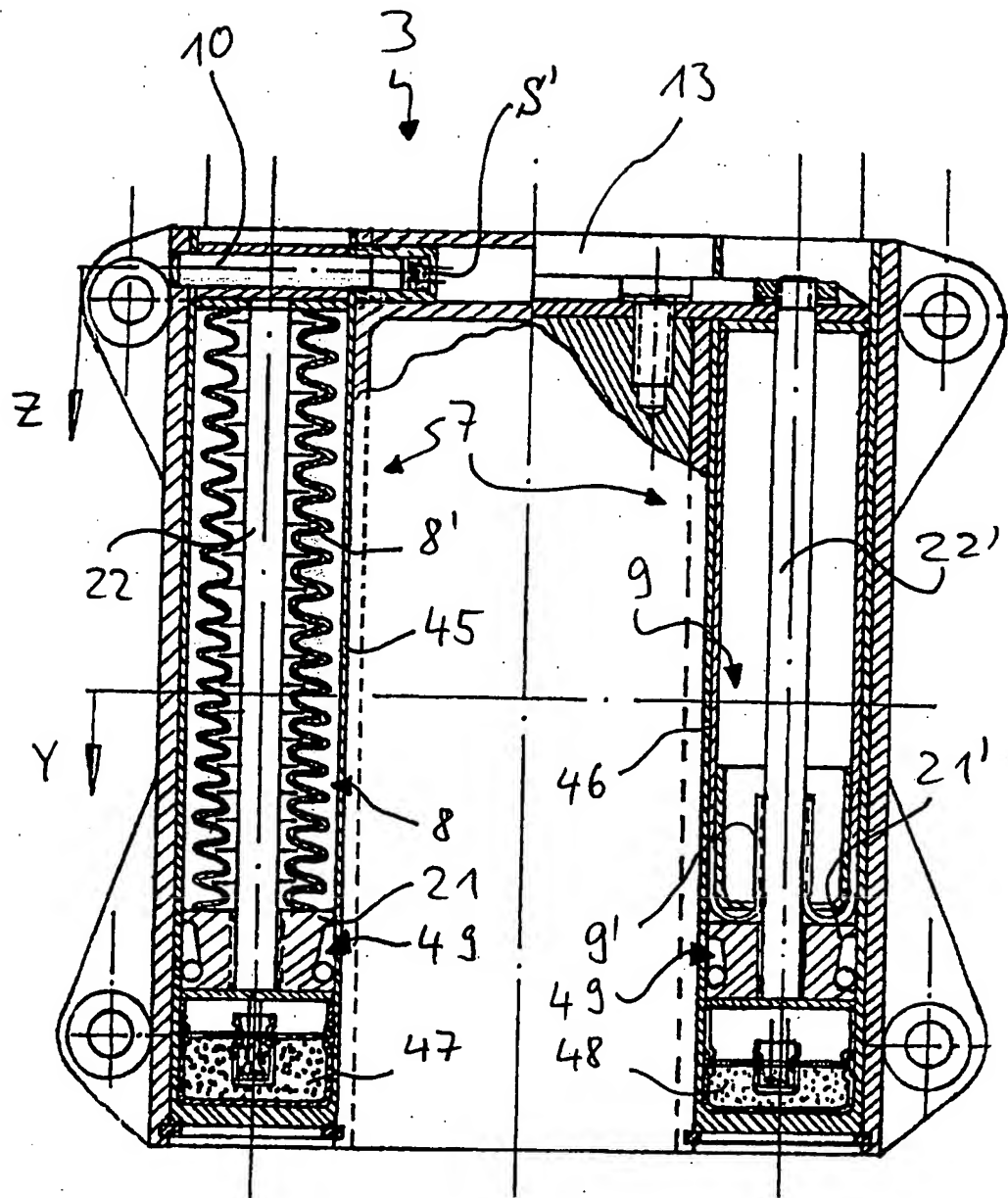


Fig. 9



Fig. 11

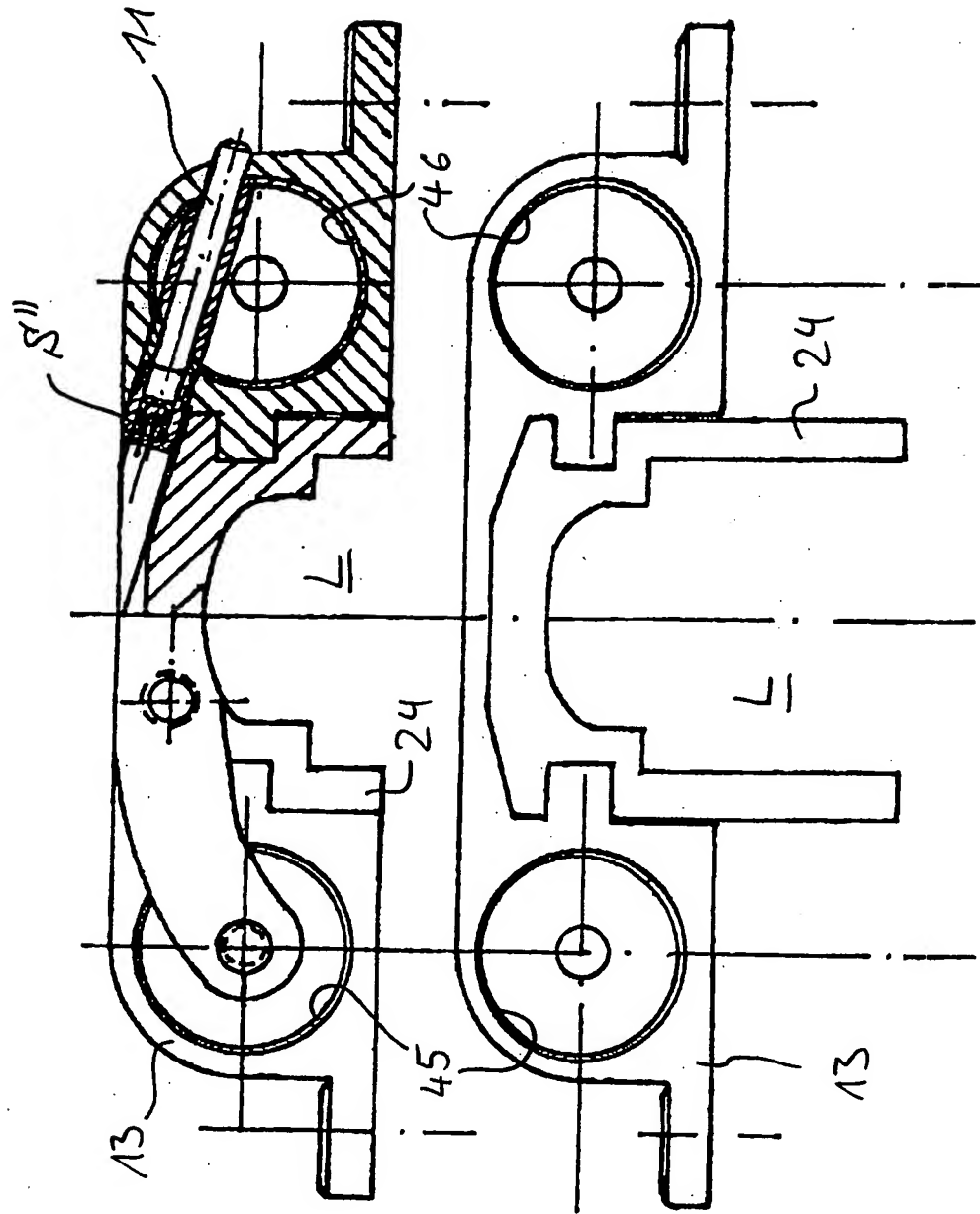


Fig. 10

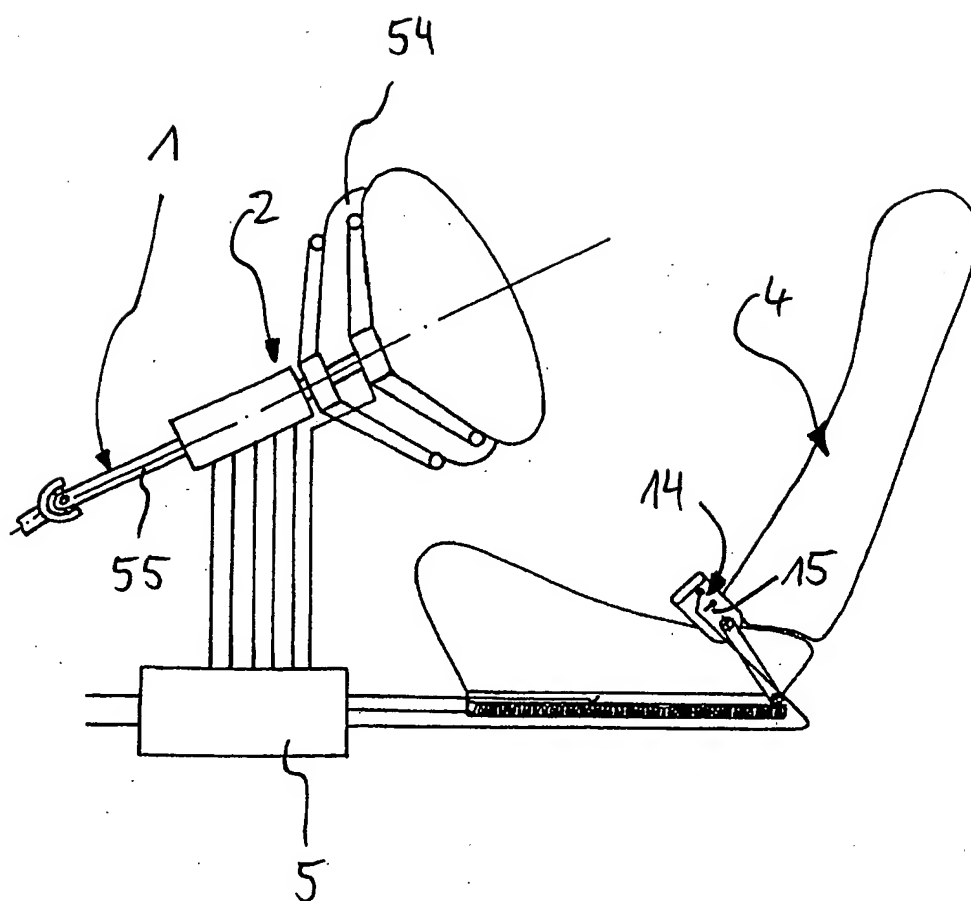


Fig. 12

Active Safety Steering Column  
Unbelted 5 % Woman

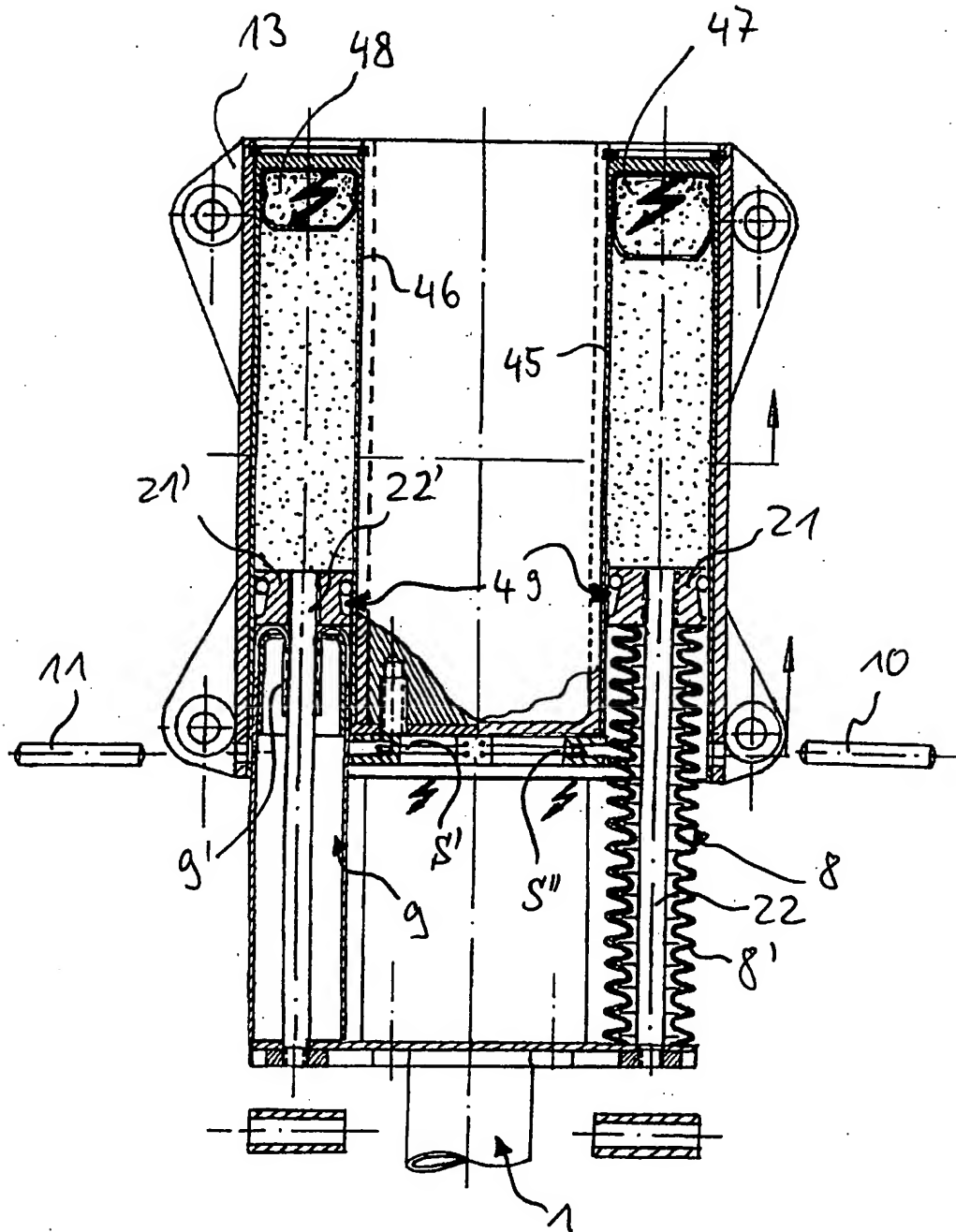


Fig. 13

Active Safety Steering Column  
Unbelted 95 % Man

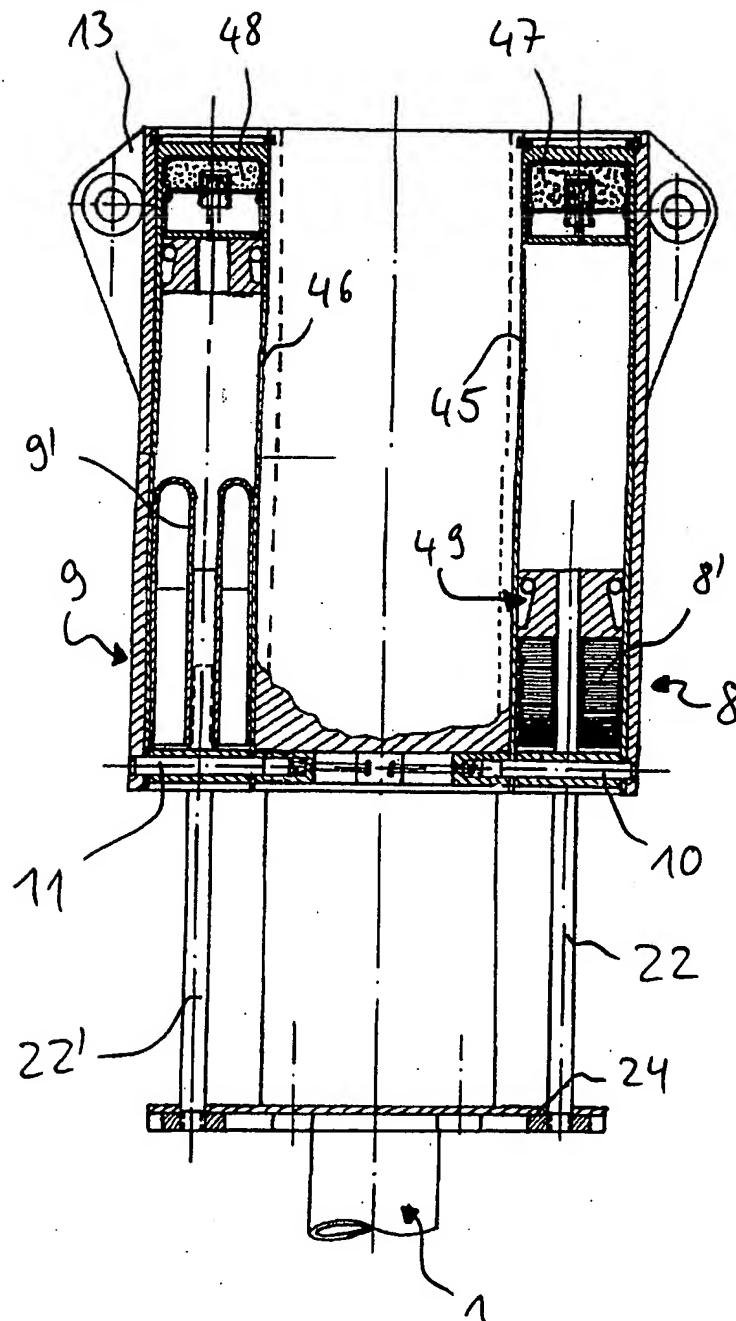


Fig. 14

# Active Safety Steering

5% Woman		50% Man		95% Man	
beltd		beltd		beltd	
no belt		no belt		no belt	
8kN 7msec		5kN 10msec		3kN 12 msec	
pull away steering		0kN		unlock	
4kN >>		2kN >>		load path limitation	
locking bolts A and B		locking bolts A and B		locking bolt B	
driving cartridge A		locking bolts A and B		locking bolt A	
driving cartridge B		locking bolts A and B		no action	
Activities					

Variable Parameters: Application - Height of Load - Characteristic Curve

Fig. 15

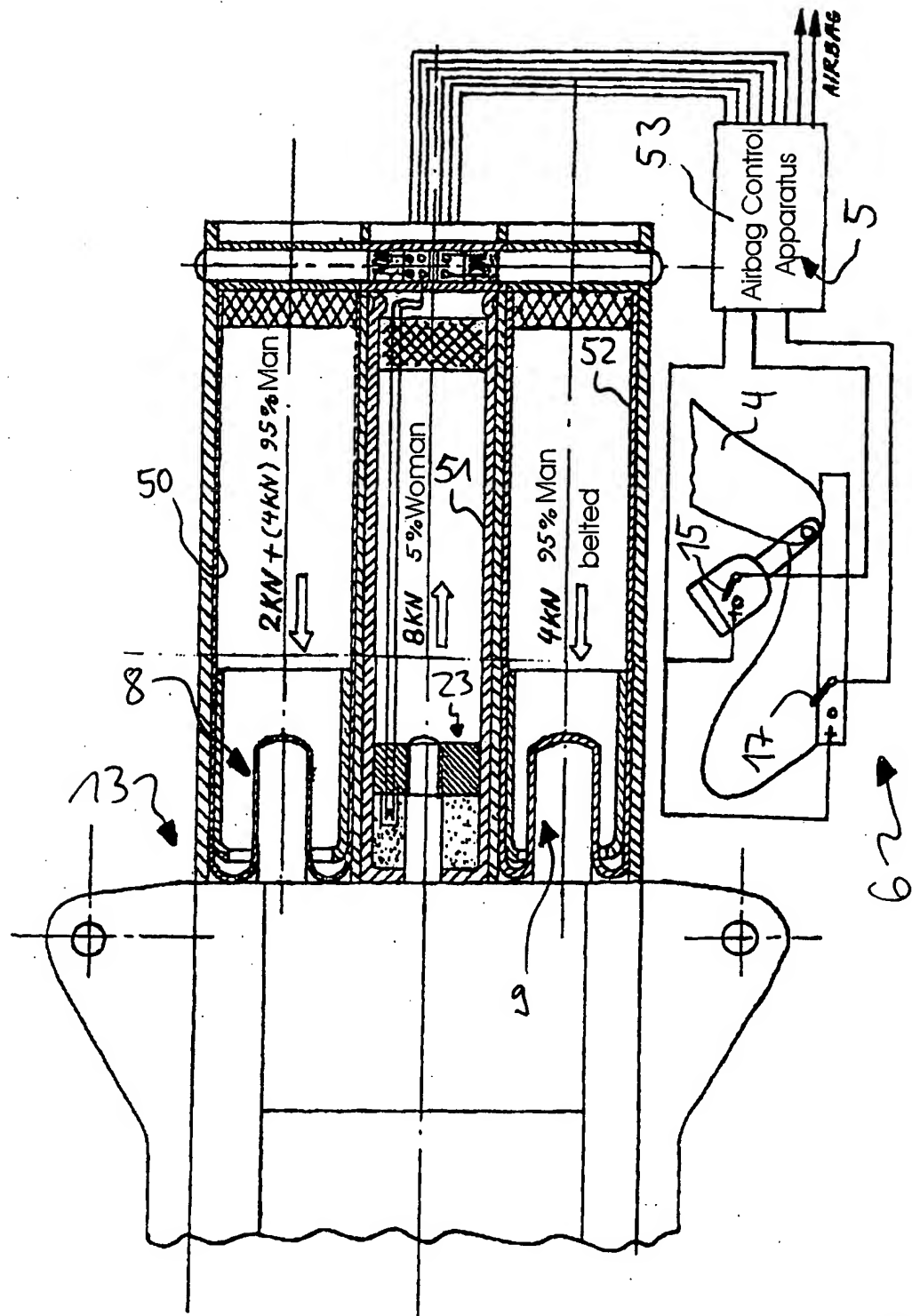


Fig. 16